

# **NEXTSTEP for Intel Processors**

**Title:** eCesys Model 466-IT01

**Entry Number:** 1483

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## **Product Vendor:**

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**Keywords:** VESA Localbus, Wingine, ISA, Chips and Technologies

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## Commentary:

The information in this entry was provided by eCesys.

### Graphics

The eCesys 466-IT01 supports 800 x 600 in 32 bit color, 1152 x 900 16 bit color, and up to 1280 x 1024 8 bit grayscale under NEXTSTEP. In addition to six ISA slots, the eCesys 466-IT01 provides a VESA local bus slot and a mulitmode Wingine slot. This system incorporates the Chips & Technologies Wingine video chipset and provides localbus video performance. The Wingine Card is integrated into a modified localbus slot and can be upgraded. The base system includes 2MB of 32 bit, interleaved, frame-buffer VRAM for the video card.

### SCSI

The system utilizes a DPT 2021/90 controller as the standard SCSI interface, and can be upgraded to include a cache module which will support up to 64MB of cache RAM, and RAID.

### Sound

The Microsoft Sound System provides a full, 16 bit sound solution on the ISA bus under NEXTSTEP and Windows.

### Color

All Hardware configurations are available in either black or white.

## Setup and Installation:

Use the ROM setup program to configure your eCesys. To run this program, type **Ctrl-Alt-s** early in the boot process when prompted.

eCesys successfully installed NEXTSTEP Release 3.2 onto an eCesys 486 with the configuration settings detailed below. This system was running on a SCSI hard disk.

### **Chips and Technologies, Inc. System Configuration Utility**

#### **STANDARD SETUP OPTIONS**

Time : 09:00:06

Date : December 19, 1993

Processor : 486DX2

Coprocessor : 486DX2  
Diskette A : 3.5 Inch, 1.44 MB  
Diskette B : Not Installed

	Cyl	Hd	Pre	LZ	Sec	Size
Fixed Disk C :	1018	14	None	1018	62	431

Fixed Disk D : Not Installed

BIOS Found :

Base Memory : 640 KB                   640 KB  
Extended Memory : 31744 KB           31744 KB  
Display : EGA or VGA

### **ADVANCED FEATURE CONTROL**

Numlock : Off  
Cache Initialization : Enabled  
486 Cache : Enabled  
DRAM Timing : 5-3-3-3 (33-40 MHz, Cache)  
Shadow System BIOS : Enabled  
Shadow Video BIOS : Enabled  
Boot Device Order : A:, C:  
Password : Disabled

### **TECHNICAL OPTION CONTROL**

Dynamic Memory Sizing : Enabled  
Block 0 DRAM Type : 256 KBit  
Block 0 Bank Count : 1  
Block 0 Start Address : 0 MB  
Block 1 DRAM Type : Disabled  
Block 1 Bank Count : 1  
Block 1 Start Address : 0 MB  
Block 2 DRAM Type : Disabled  
Block 2 Bank Count : 1  
Block 2 Start Address : 0 MB  
Block 3 DRAM Type : Disabled  
Block 3 Bank Count : 1  
Block 3 Start Address : 0 MB

DRAM Decode Mode : 4-RAS mode  
Block 0 Interleave : Disabled  
Block 1 Interleave : Disabled  
Block 2 Interleave : Disabled  
Block 3 Interleave : Disabled  
AT bus Clock Select : ATCLK  
AT bus 16-bit cmd delays : 0  
AT bus I/O cmd delays : 1  
AT bus 16-bit Wait States : 1  
AT bus 8-bit Wait States : 3  
AT bus address hold time : 0  
VRAM type : Split Transfer

#### **CHIPSet REGISTER CONTROL**

Idx B76543210  
05 : 00000101  
06 : 00101001  
07 : 00001111  
08 : 00000000  
09 : 00000000  
0A : 10110000  
0B : 00010000  
0C : 00000101  
0D : 00000000  
10 : 11000101  
11 : 10000000  
12 : 00000001  
13 : 00000000  
14 : 00000000  
15 : 00000000  
16 : 00000000  
17 : 00000000  
18 : 00000000  
19 : 00000000  
1A : 00000000

1B : 01000011  
20 : 00000000  
21 : 00000000  
27 : 00100000  
28 : 00000000  
29 : 00000000  
2A : 00000000  
2B : 00000000  
2C : 00000000  
2D : 00000000  
2E : 00000000  
2F : 00000000  
30 : 11111111  
31 : 00000111  
32 : 00000000  
33 : 11111111  
34 : 00000111  
35 : 00000000  
36 : 00000000  
E2 : 00100000  
E3 : 00010011  
E4 : 00010000  
E5 : 00000101

## **Known Problems:**

### **Release 3.1**

The eCesys 486, the Logitech Bus Mouse, and the current version of the installation software conflict. This problem results in the error "AHA timeout" and the system hanging during the boot process while it probes for the CD-ROM drive. To work around this, remove the bus mouse and use a PS/2 mouse while you install NEXTSTEP. You can reinstall your Logitech Bus Mouse after you finish installing the software.

The current (Dec '93) eCesys 466-IT01 no longer ships with a Logitech Bus Mouse. The PS/2 mouse is highly recommended with this system.